

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: )  
YOON )  
Serial No. Not yet assigned )  
Filing Date: Herewith )  
For: PULLEY TYPE CONSTANT VELOCITY )  
JOINT )  
\_\_\_\_\_ )

PRELIMINARY AMENDMENT

Director, U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

Prior to the calculation of fees and examination of  
the present application, please enter the amendments and  
remarks set out below.

In the Drawings:

Submitted herewith is a request for a proposed  
drawing modification as indicated in red ink to label FIGS. 1  
and 2 as prior art.

In the Claims:

Please cancel Claims 1 to 15.

Please add new Claims 16 to 38.

16. A pulley type constant velocity joint  
comprising:

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first and second shafts for transmitting and receiving power therebetween;

a first pulley connected to an end of said first shaft and a second pulley connected to an end of said second shaft, said first and second pulleys having circumferential grooves defined therein;

an elongate member wound around the circumferential grooves of said first and second pulleys for causing said first and second pulleys to rotate about respective centers thereof; and

a first support frame rotatably supporting said first pulley and a second support frame rotatably supporting said second pulley, said first and second support frames having respective ends rotatably connected together.

17. The pulley type constant velocity joint according to Claim 16 further comprising respective pins connecting said first support frame to a center of said first pulley and said second support frame to a center of said second pulley.

18. The pulley type constant velocity joint according to Claim 16 further comprising respective connecting pins for connecting the ends of said first and second support frames together.

19. The pulley type constant velocity joint according to Claim 18 wherein said connecting pins each comprise a holding portion at at least one end thereof.

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20. The pulley type constant velocity joint according to Claim 16 wherein said elongate member is wound around the circumferential grooves of said first and second pulleys so that said elongate member crosses itself.

21. The pulley type constant velocity joint according to Claim 16 wherein said elongate member comprises metal.

22. The pulley type constant velocity joint according to Claim 16 wherein said elongate member comprises a single body.

23. The pulley type constant velocity joint according to Claim 16 wherein said elongate member is connected to the ends of said first and second shafts.

24. The pulley type constant velocity joint according to Claim 16 wherein said first support frame comprises portions adjacent both sides of said first pulley.

25. The pulley type constant velocity joint according to Claim 16 wherein said second support frame comprises portions adjacent both sides of said second pulley.

26. The pulley type constant velocity joint according to Claim 16 wherein said first and second shafts are

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symmetrically aligned with respect to an imaginary symmetric plane bisecting said first and second supporting frames.

27. A pulley type constant velocity joint comprising:

first and second shafts for transmitting and receiving power therebetween;

a first pulley connected to an end of said first shaft and having a circumferential groove therein and a second pulley connected to an end of said second shaft and having a circumferential groove therein;

an elongate member winding around the circumferential grooves of said first and second pulleys to cause said first and second pulleys to symmetrically rotate about respective centers thereof as a first degree of freedom; and

a first support frame rotatably supporting said first pulley and a second support frame rotatably supporting said second pulley, said first and second support frames having respective ends rotatably connected together to provide a second degree of freedom.

28. The pulley type constant velocity joint according to Claim 27 further comprising:

a respective pin for rotatably connecting a center of said first pulley to said first support frame and a center of said second pulley to said second support frame; and

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respective connecting pins for connecting the ends of said first support frame to the ends of said second support frame.

29. The pulley type constant velocity joint according to Claim 27 wherein said elongate member is wound around the circumferential grooves of said first and second pulleys so that said elongate member crosses itself.

30. The pulley type constant velocity joint according to Claim 27 wherein said elongate member is fixedly attached to the ends of said first and second shafts.

31. A constant velocity joint comprising:  
first and second shafts;  
an elongate member for causing said first and second shafts to have a first degree of freedom by moving symmetrically about respective centers thereof; and  
first and second support frames for causing said first and second shafts to have a second degree of rotational freedom and to transmit and receive power therebetween.

32. The pulley type constant velocity joint according to Claim 31 further comprising:  
first and second pulleys having the elongate member wrapped therearound;  
a pin for rotatably connecting a center of said first pulley to said first support frame and a pin for

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rotatably connecting a center of said second pulley to said second support frame; and

respective connecting pins for rotatably connecting ends of said first and second support frames.

33. A method for coupling first and second shafts to allow power to be transferred therebetween and comprising:

connecting a first pulley to an end of the first shaft and a second pulley to an end of the second shaft, the first and second pulleys having circumferential grooves defined therein;

winding an elongate member around the circumferential grooves of the first and second pulleys for causing the first and second pulleys to rotate about respective centers thereof;

rotatably connecting a first support frame to the first pulley and rotatably connecting a second support frame to the second pulley; and

rotatably connecting ends of the first and second support frames together.

34. The method according to Claim 33 wherein winding comprises winding the elongate member around the circumferential grooves of the first and second pulleys so that the elongate member crosses itself.

35. The method according to Claim 33 wherein the elongate member comprises metal.

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36. The method according to Claim 33 wherein the elongate member comprises a single body.

37. The method according to Claim 33 further comprising connecting the elongate member to the ends of the first and second shafts.

38. The method according to Claim 33 wherein the first and second shafts are symmetrically aligned with respect to an imaginary symmetric plane bisecting the first and second support frames.

#### REMARKS

It is believed that all of the claims are patentable over the prior art. For better readability and the Examiner's convenience, the newly submitted claims differ from the translated counterpart claims which are being canceled. The newly submitted claims do not represent changes or amendments that narrow the claim scope for any reason related to the statutory requirements for patentability.

Accordingly, after the Examiner completes a thorough examination and finds the claims patentable, a Notice of Allowance is respectfully requested in due course. Should the Examiner determine any minor informalities that need to be addressed, he is encouraged to contact the undersigned attorney at the telephone number below.

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Respectfully submitted,



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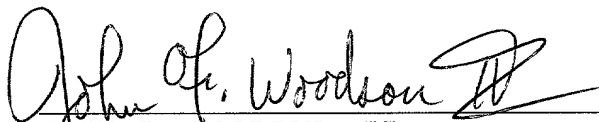
SUBMISSION OF PROPOSED MODIFICATIONS TO DRAWINGS

Director, U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

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Respectfully submitted,



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FIG 1  
~~CONVENTIONAL ART~~  
(PRIOR ART)

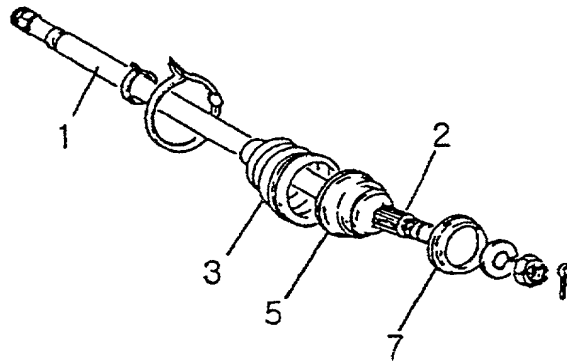


FIG 2  
~~CONVENTIONAL ART~~  
(PRIOR ART)

